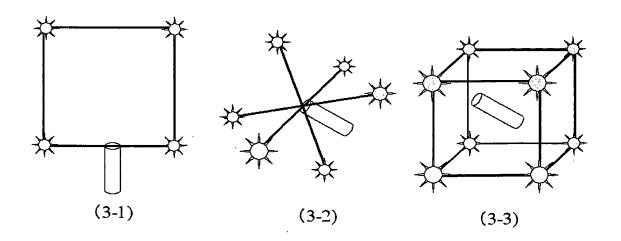
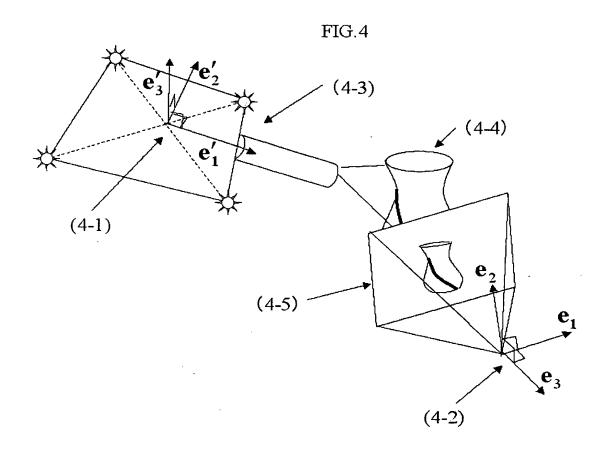


FIG.3





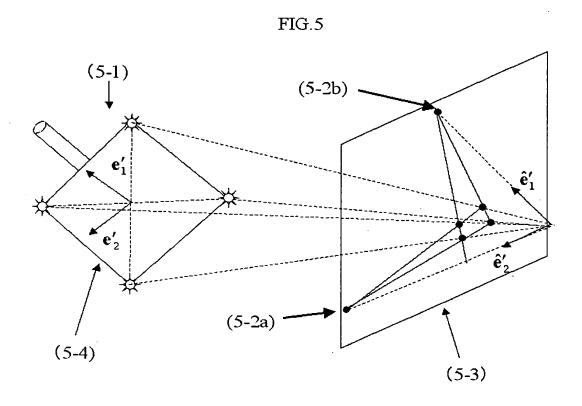


FIG.6

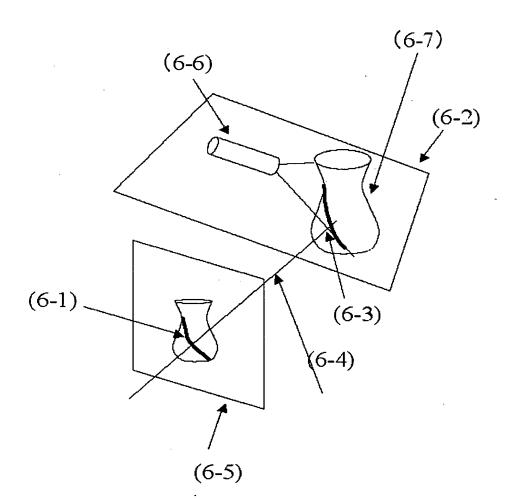
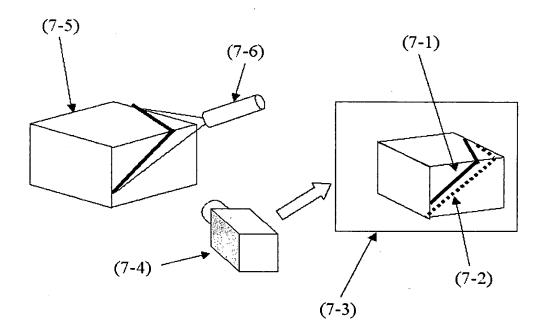


FIG.7



- ***Explanation of figures***
- 1.1 3D Measurement device 1.1a line laser projector 1.1b LEDs
- 1.2 Image capturing device 1.3 Computer
- 1-4 Target object 1-5 Projected laser light
- 2-1 3D Measurement device 2-2 Image capturing device 2-3 Computer
- 2-4 Target object 2-5 Display device
- 3-1 Squared shape 3-2 x,y,z coordinate shape 3-3 Cube shape
- 4-1 marker coordinate system 4-2 camera coordinate system 4-3 3D Measurement device
- 4-4 Target object 4-5 Image plane
- 5·1 3D Measurement device 5·2a VP 5·2 b VP 5·3 Image plane
- 5.4 Marker plane
- 6-1 Detected pixel on image 6-2 Estimated laser plane
- 6-3 Estimated 3D point
- 6-4 The line going through the origin of the camera coordinates and the surface point
- 6-5 Image plane 6-6 3D Measurement device 6-7 Target object